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(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 Bayway Drive, Baytown, TX 77520 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHNSON, Ivy, D.** [US/US]; 4 Winthrop Road, Lawrenceville, NJ 08648 (US). **LAI, Wenyih, F.** [US/US]; 656 Bellerive Court, Bridgewater, NJ 08807 (US).

(74) Agent: **SHERER, Edward, F.**; ExxonMobil Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US).

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(54) Title: HIGH ACTIVITY SMALL CRYSTAL ZSM-12

(57) Abstract: A porous, crystalline material is described having the framework structure of ZSM-12 and a composition involving the molar relationship: $X_2O_3 \cdot (n)YO_2$ wherein X is a trivalent element, Y is a tetravalent element and n is less than 60. The material has an average crystal size of the material is less than 0.1 micron and a Diffusion Parameter for mesitylene of at least $1000 \times 10^{-6} \text{ sec}^{-1}$ when measured at a temperature of 100°C and a mesitylene pressure of 2 torr.

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